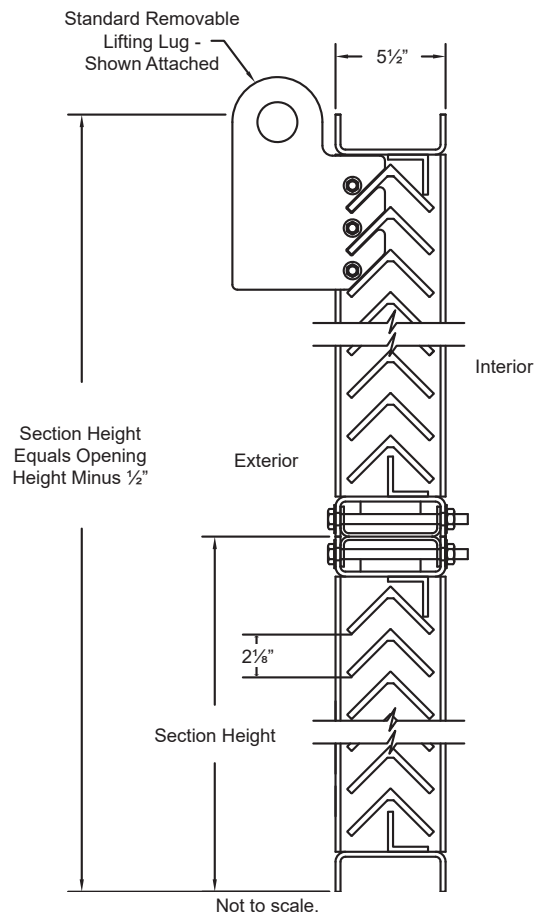
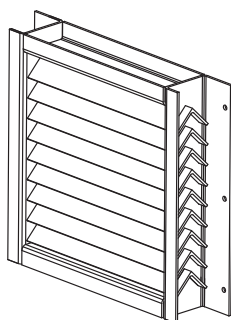
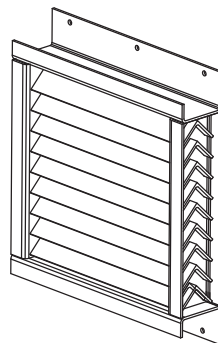
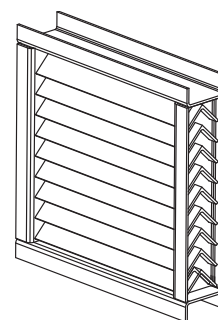


STANDARD CONSTRUCTION**FRAME:** ¼" aluminum plate.**BLADE:** ¼" structural aluminum angle.**FRAME DEPTH:** 5½" deep**SCREEN:** ½" x 0.051" expanded aluminum**FREE AREA:** 49.3% - 7.89 sq. ft. (48" x 48" Louver)**PSF RATING:** 266 PSF Design Load**TEST METHODS:** ICC 500, FEMA 361, ASTM E 330, ASTM E 1886**AVAILABLE FINISHES:** Mill, Kynar**TEST METHODS****ICC 500-2008**, Standard for the Design and Construction of Storm Shelters.**FEMA 361 3rd Edition**, Section B8 Test Methods for Impact and Pressure Testing.**ASTM E 330-02**, Test Method for Structural Performance of Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.**ASTM E 1886-05**, Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile and Exposed to Cyclic Pressure Differentials.**NOTES**

1. Nominal deductions will be made to the opening size given.
2. Keep occupants and mechanical equipment to a minimum of 3 feet away from the louver during severe weather events.
3. Approximate shipping weight is 15.0 lbs./sq.ft.

LOUVER SIZES

Min Panel	Max Single Panel
12"W x 12"H	90"W x 90"H (Continuous Wide) 78"W x 90"H (Continuous High)

**Optional Flange Mounting or Channel Frame Mounting**Standard MountCantilevered Mount
Flange at JambCantilevered Mount
Flange at Head & SillRecessed Mount
Channel Frame

											
Item #	Qty	Width	Height	Width	Height	Mullion	Type	Location			
		Opening Size		Louver Size			Screens				<u>Union Made</u>
Arch. / Eng. :						EDR:		ECN:		Job:	
Contractor:											
Project:						Date:		DWN:		DWG:	

**Union Made**

In the interest of product development, Louvers & Dampers reserves the right to make changes without notice.

www.louvers-dampers.com

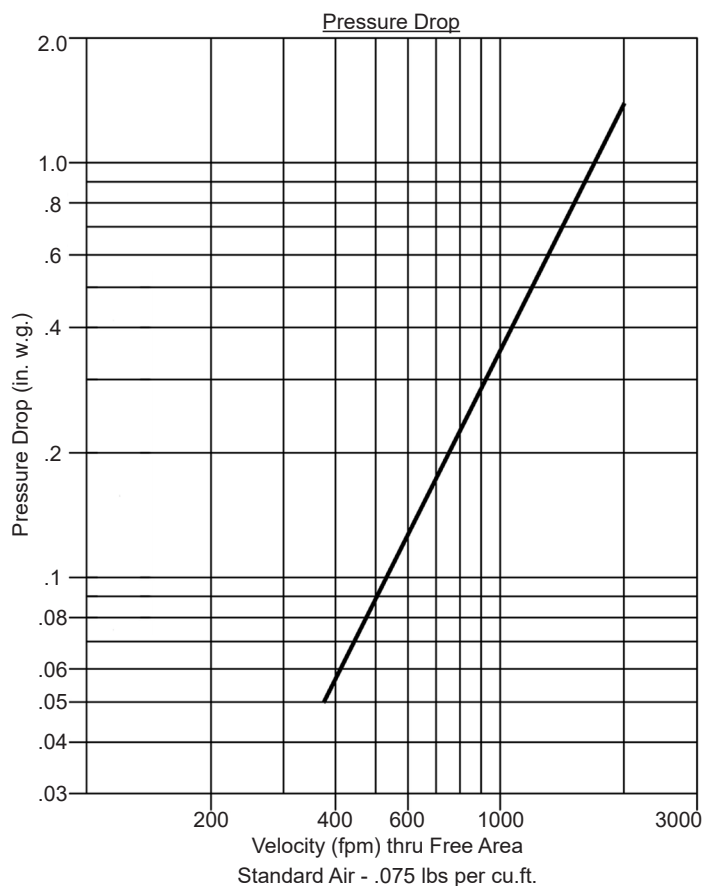
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Louvers & Dampers

A Mestek Company

PERFORMANCE DATA

		Free Area sq.ft. (sq.m.)								
		Width in. (mm)								
		12" (305)	24" (610)	36" (914)	48" (1219)	60" (1524)	72" (1829)	78" (1981)	84" (2134)	90" (2286)
Height in. (mm)	12" (305)	0.23 (0.021)	0.79 (0.073)	1.34 (0.124)	1.88 (0.175)	2.44 (0.227)	2.99 (0.278)	3.26 (0.303)	3.53 (0.328)	3.72 (0.345)
	24" (610)	0.47 (0.043)	1.63 (0.152)	2.76 (0.256)	3.88 (0.361)	5.05 (0.469)	6.18 (0.574)	6.74 (0.626)	7.30 (0.678)	7.68 (0.714)
	36" (914)	0.71 (0.066)	2.48 (0.230)	4.18 (0.389)	5.89 (0.547)	7.66 (0.711)	9.36 (0.870)	10.22 (0.949)	11.07 (1.028)	11.65 (1.082)
	48" (1219)	0.95 (0.088)	3.32 (0.308)	5.61 (0.521)	7.89 (0.733)	10.26 (0.953)	12.55 (1.166)	13.69 (1.272)	14.84 (1.378)	15.61 (1.450)
	60" (1524)	1.19 (0.111)	4.16 (0.387)	7.03 (0.653)	9.90 (0.920)	12.87 (1.196)	15.74 (1.462)	17.17 (1.595)	18.61 (1.728)	19.58 (1.819)
	72" (1829)	1.43 (0.133)	5.01 (0.465)	8.46 (0.786)	11.90 (1.106)	15.48 (1.438)	18.93 (1.758)	20.65 (1.918)	22.37 (2.078)	23.54 (2.187)
	78" (1981)	1.56 (0.145)	5.43 (0.504)	9.17 (0.852)	12.91 (1.199)	16.78 (1.559)	20.52 (1.906)	22.39 (2.080)	26.14 (2.429)	27.51 (2.555)
	84" (2134)	1.68 (0.156)	5.85 (0.543)	9.88 (0.918)	13.91 (1.292)	18.08 (1.680)	22.11 (2.054)	24.13 (2.241)	28.03 (2.604)	27.51 (2.555)
	90" (2286)	1.80 (0.167)	6.27 (0.583)	10.59 (0.984)	14.91 (1.385)	19.39 (1.801)	23.71 (2.202)	25.86 (2.403)	27.16 (2.523)	29.49 (2.739)

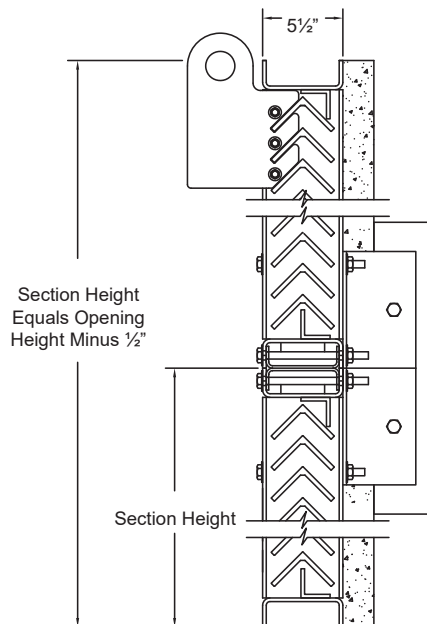
**Fastener Schedule**

Anchor Type	Substrate	Minimum Embedment	Minimum Edge Dist.
(1) ½" x 3" Red Head LDT	CMU	2½"	3¼"
(1) ½" x 3" Red Head LDT	Concrete	2½"	3¼"
(2) 2" x ½" Grade 5 Bolt	Steel	Full	¾"

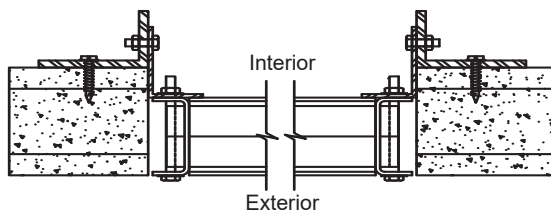
- (1) Concrete screws shall be Red Head LDT Zinc Coated Concrete Screws.
(2) Bolts shall be a minimum Grade 5.

Note to Occupants:

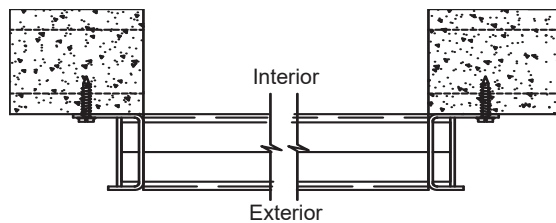
Keep occupants and mechanical equipment to a minimum of 3 feet away from Model ALLF5 louvers during severe weather events.

LOUVER JAMB MOUNTING DETAILS

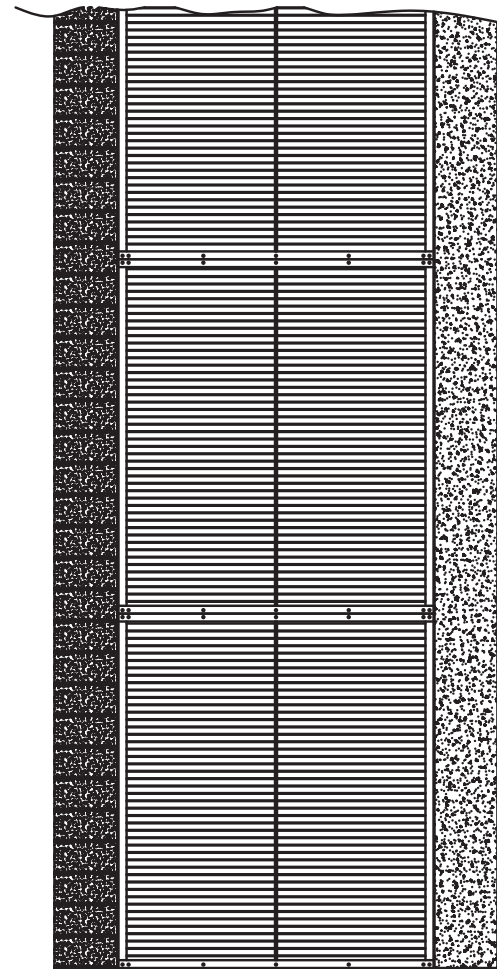
Model ALLF5
Section View
Recessed Frame Shown



Model ALLF5
Recessed Mount in Opening



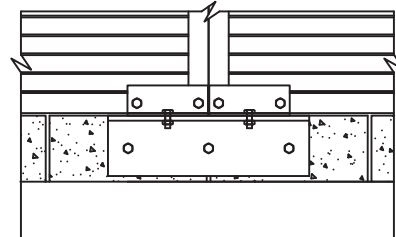
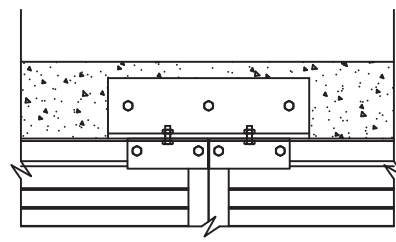
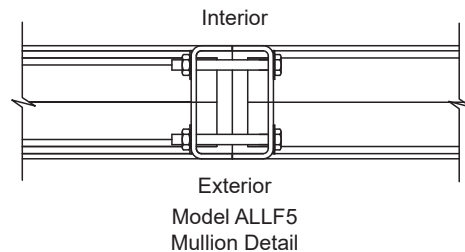
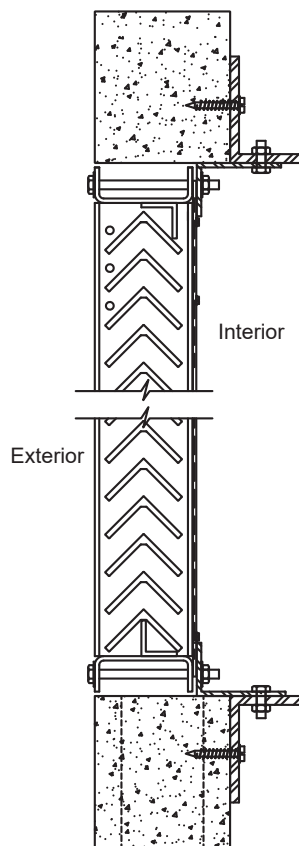
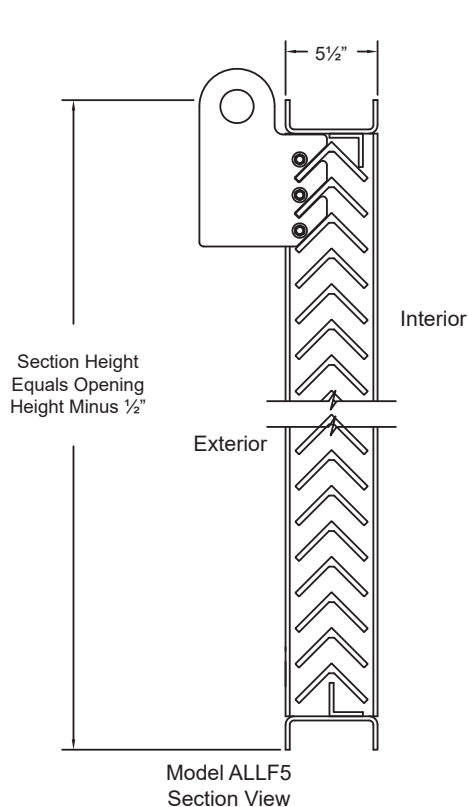
Model ALLF5
Cantilevered at Opening



Model ALLF5
Elevation



Model ALLF5
Plan View

LOUVER HEAD AND SILL MOUNTING DETAILS

Model ALLF5
Recessed in Opening
Head and Sill Detail

